

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS

1. (Previously Amended) An imaging system to reposition an image capture device in a position relative to a subject of interest according to six degrees of freedom as preserved in association with a reference image of the subject of interest, comprising:
 - an image capture device;
 - a position apparatus on which the image capture device is mounted, operable to orient the image capture device relative to a subject of interest according to six degrees of freedom ;
 - a reference image of the subject of interest;
 - a computational device coupled to the position apparatus, such computational device capable of receiving images from the image capture device and receiving the reference image, performing a comparison, and communicating adjustments to reposition the image capture device along any of six degrees of freedom.
2. (Original) An imaging system as in claim 1 wherein the communication of position adjustments is via signals to the positional apparatus from the computational device.
3. (Original) An imaging system as in claim 1 wherein the communication of positional adjustment data is by means of a user interface.
4. (Previously Amended) A method for repositioning an image capture device relative to a subject of interest according to six degrees of freedom comprising the steps of:
 - a) initializing an imaging system, wherein initializing includes the steps of:
 - a.1) obtaining a reference image of the subject of interest wherein said reference image includes multiple reference points in 3-dimensional space;
 - a.2) repositioning an image capture device relative to the subject of interest, where such repositioning uses six degrees of freedom;
 - b) imaging the subject of interest;
 - c) computing the difference between the reference image of the subject of interest and the image capture device image;

d) refining the position of the image capture device so that the image capture device is in the same position relative to the subject of interest as that position from which the reference image was obtained, where such position refining the position of the image capture device occurs along six degrees of freedom.

5. (Original) A method as in claim 4 n which the step of initializing further includes the step of generating a three dimensional model of the subject of interest through selection of reference pointes in the subject of interest.
6. (Original) A method as in claim 4 where the reference image is obtained after fixed reference points have been selected in the subject of interest.
7. (Original) A method as in claim 4 where the step of initializing includes extracting reference points form more than one image of the subject of interest representing more than one camera center.
8. (Original) A method as in claim 4 where time has elapsed between the initialization process and the repositioning of the image capture device.
9. (Original) A method as in claim 4 where the computation of position is communicated to an automatic position correction apparatus.
10. (Original) A method as in claim 4 where the computation of position is communicated to the user through an interface.
11. (Previously Amended) An apparatus for positioning an imaging device and adapted for operably coupling to an image capture device and where such apparatus is capable of positioning said image capture device along six degrees of freedom, such that the positioning of the image capture device is controllable and said apparatus is operable to orient the image capture device relative to a subject of interest using six degrees of freedom to orient the image capture device.
12. (Original) An apparatus as in claim 11 where the positioning of the image capture device is automated.